



## PATENT ABSTRACTS OF JAPAN

(11) Publication number: **11128753 A**(43) Date of publication of application: **18.05.99**

(51) Int. Cl.

**B01J 35/04**  
**B01D 53/94**
(21) Application number: **09298383**(22) Date of filing: **30.10.97**(71) Applicant: **BABCOCK HITACHI KK**
(72) Inventor:  
**MUKAI TOSHIFUMI**  
**TOMINAGA SHIGERU**  
**HIROTA TAKESHI**

**(54) HONEYCOMB CATALYST, MANUFACTURING THEREOF, MANUFACTURING DEVICE THEREFOR AND EXHAUST GAS TREATMENT METHOD USING HONEYCOMB CATALYST**

be treated is vertical or the corrugated wall faces of the flow paths are vertical. Thus it is possible to prevent dust from being accumulated and thereby treat the exhaust gas stably.

(57) Abstract:

COPYRIGHT: (C)1999,JPO

**PROBLEM TO BE SOLVED:** To increase a surface area per unit volume and enhance catalytic activity and at the same time, reduce the incidence of dust clogging by making the cross sections of gas flow paths rectangular and making only the wall faces of the gas flow paths along the long sides of the rectangular cross sections a corrugated face, in a honeycomb catalyst with gas flow paths arranged in a lattice pattern.

**SOLUTION:** The honeycomb catalyst is a denitration catalyst used in an NO<sub>x</sub> catalytic reduction treatment method for removing a nitrogen oxide (NO<sub>x</sub>) contained in an exhaust gas to be exhausted from a thermal power plant or the like, and has a plurality of gas flow paths arranged in a lattice pattern. The cross section shape of the honeycomb catalyst as described is rectangular and only the wall faces along the long sides of the rectangular cross sections are of a corrugated face 4 shape. Further, the honeycomb catalyst with wall faces, among which only those along the long sides of the rectangular cross sections are of the corrugated face 4 shape, is arranged horizontally in such a way that the gas flow paths in a circulation flow path for a gas to

